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## Class 381 ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES

1	BINAURAL AND STEREOPHONIC
2	. Broadcast or multiplex stereo
3	FM final modulation
<del>4</del>	AM subcarrier
<u></u>	Four discrete channels
6	Having transmitter
7	Switch-type detector or modulator
8	Two diodes
9	Four or more diodes
10	Channel separation control
11	Automatic switchover between mono and stereo modes
12	Stereo indicators (e.g., stereo presence)
13	Antinoise
14	Having transmitter
15	AM or both AM and angle final modulation
16	Having transmitter
<u>17</u>	. Pseudo stereophonic
18	Pseudo quadrasonic
19	. Quadrasonic
20	Matrix
21	4-2-4
22	Variable decoder
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	With encoder
23.1	. Hearing aid

- 300 . Stereo speaker arrangement301 .. In furniture or clothing
- 302 .. In vehicle
- 303 .. Optimization
- 304 ... Enclosure orientation ... Enclosure adaptation
- 306 .. With image presentation means
- .. Surround (i.e., front plus rear or side)
- 308 ... In single baffle309 ... Stereo earphone310 ... Virtual positioning
- 311 ... Wireless or for use in diverse
- 26 . Stereo sound pickup device (microphone)
- . Center channel
- 28 . Amplifier
- 54 HELIUM SPEECH
- 55 AUDIO TRANSDUCER PROTECTION CIRCUITRY
- 56 MONITORING OF SOUND
- . Amplification control responsive to ambient soundMONITORING/MEASURING OF AUDIO DEVICES
- . Loudspeaker operation. Testing of hearing aids

<u>61</u>	SOUND EFFECTS
<u>62</u>	. Tremelo or vibrato effects
<u>63</u>	. Reverberators
64	Mechanical (e.g., reverberation chamber)
<u>65</u>	Helical spring
<u>66</u>	DEREVERBERATORS
<u>67</u>	STETHOSCOPES, ELECTRICAL
<u>312</u>	HEARING AIDS, ELECTRICAL
<u>313</u>	. Directional
<u>314                                    </u>	. Programming interface circuitry
<u>315                                    </u>	. Remote control, wireless, or alarm
<u>316</u>	. Frequency transposition
<u>317</u>	. Noise compensation circuit
318	Feedback suppression
319	. With vacuum tube amplifier
320	. Spectral control
<u>320</u> 321	. Wideband gain control
	. Specified casing or housing
<u>322</u>	•
<u>323</u>	Power supply or programming interface terminals
<u>324</u>	Component mounting
<u>325</u>	Cerumen protection
<u>326</u>	Non-air-conducted sound delivery
<u>327                                    </u>	Spectacle
<u>328</u>	Ear insert
<u>329</u>	Device for manipulation
330	Hook over ear
331	Inductive pickup
<del>70</del>	ARTIFICIAL LARYNX, ELECTRICAL
<del>71.1</del>	ACOUSTICAL NOISE OR SOUND CANCELLATION
71.2	. Acoustic, nonairborne vibration sensing or counterwave emission
71.3	. From appliance
71.4	. Within cabin or compartment of vehicle
<u>71.5</u>	. Within duct
<u>71.6</u>	. Adjacent ear
<u>71.7                                   </u>	. Particular transducer or enclosure structure
<u>71.8                                    </u>	. Counterwave generation control path
<u>71.9                                    </u>	Nonacoustically derived reference signal
<u>71.11</u>	Adaptive filter topology
71.12	Algorithm or formula (e.g., LMS, Filtered-X, etc.)
<u>71.13</u>	Analog or nonadaptive
<u>71.14</u>	Tonal noise or particular frequency or band
	· · · ·
<u>72</u>	
/ 4	HEARING PROTECTORS, ELECTRICAL
	HEARING PROTECTORS, ELECTRICAL SOUND OR NOISE MASKING
73.1	SOUND OR NOISE MASKING
73.1 74	SOUND OR NOISE MASKING HEADPHONE CIRCUITS
73.1 74	SOUND OR NOISE MASKING HEADPHONE CIRCUITS MEGAPHONES
73.1 74	SOUND OR NOISE MASKING HEADPHONE CIRCUITS MEGAPHONES LECTERNS
73.1 74	SOUND OR NOISE MASKING HEADPHONE CIRCUITS MEGAPHONES LECTERNS ONE-WAY AUDIO SIGNAL PROGRAM DISTRIBUTION
73.1 74	SOUND OR NOISE MASKING HEADPHONE CIRCUITS MEGAPHONES LECTERNS ONE-WAY AUDIO SIGNAL PROGRAM DISTRIBUTION . Drive-in
73.1 74 75 76 77 78 79	SOUND OR NOISE MASKING HEADPHONE CIRCUITS MEGAPHONES LECTERNS ONE-WAY AUDIO SIGNAL PROGRAM DISTRIBUTION . Drive-in . Near field
73.1 74 75 76 77 78 79 80	SOUND OR NOISE MASKING HEADPHONE CIRCUITS MEGAPHONES LECTERNS ONE-WAY AUDIO SIGNAL PROGRAM DISTRIBUTION . Drive-in . Near field . Multiple channel
73.1 74 75 76 77 78 79 80 81	SOUND OR NOISE MASKING HEADPHONE CIRCUITS MEGAPHONES LECTERNS ONE-WAY AUDIO SIGNAL PROGRAM DISTRIBUTION . Drive-in . Near field . Multiple channel With switching
73.1 74 75 76 77 78 79 80	SOUND OR NOISE MASKING HEADPHONE CIRCUITS MEGAPHONES LECTERNS ONE-WAY AUDIO SIGNAL PROGRAM DISTRIBUTION . Drive-in . Near field . Multiple channel

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<u>84</u>	Spare amplifier substitution
<u>85</u>	Speaker or channel switching
<u>86</u>	VEHICLE
<u>87</u>	HAVING NON-ELECTRICAL FEATURE (E.G., MOUNTING)
<u>89</u>	. Loudspeakers driven in given phase relationship
<u>332</u>	. And loudspeaker
<u>333</u>	With furniture, clothing, or image presentation means
334	Portable or for use in diverse environment
335	Plural diaphragms, compartments, or housings
336	Curved or angled housing
91	. Having microphone
92	DIRECTIVE CIRCUITS FOR MICROPHONES
93	FEEDBACK SUPPRESSION
94.1	NOISE OR DISTORTION SUPPRESSION
94.2	. Spectral adjustment
94.3	In multiple frequency bands
94.4_	. Interpolation
94.5	. Soft switching, muting, or noise gating
94.6	. Hum or ground loop
94.7	. Using signal channel and noise channel
<u>94.8</u>	. Peak limiting or pulsive noise compensation
94.9	. Feedforward circuitry for transducer compensation
<u>95</u>	MICROPHONE FEEDBACK
<u>96</u>	LOUDSPEAKER FEEDBACK
<u>97</u>	INCLUDING PHASE CONTROL
<u>98</u>	INCLUDING FREQUENCY CONTROL
<u>99</u>	. Having crossover filter
<u>100</u>	With active device
101	. Automatic tone control
<u>102</u>	With amplitude control
<u>103</u>	. Having automatic equalizer circuit
<u>104</u>	INCLUDING AMPLITUDE OR VOLUME CONTROL
105 106	. Remote
106 107	. With amplitude compression/expansion . Automatic
107 108	
<u>108</u> 109	Including feedback . With manual volume control
110 110	VOICE CONTROLLED
111	CIRCUITRY COMBINED WITH SPECIFIC TYPE MICROPHONE OR
***	LOUDSPEAKER
112	. With carbon microphone
113	. With electrostatic microphone
114	. With piezoelectric microphone
115	. With magnetic microphone
116	. With electrostatic loudspeaker
117	. With magnetic loudspeaker
118	WITH MUSICAL INSTRUMENT
119	WITH MIXER
120	WITH AMPLIFIER
121	. Feedback
122	HAVING MICROPHONE
123	SWITCHING
150	ELECTRO-ACOUSTIC AUDIO TRANSDUCER
<u> 151</u>	. Body contact wave transfer (e.g., bone conduction earphone, larynx microphone)
<u>152</u>	. Driven diverse static structure (e.g., wall, sounding board)
<u>337</u>	. Having acoustic wave modifying structure
<u>338</u>	With tubular waveguide or resonant element

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<u>339</u>	Sound intensifying or spreading element
340	Horn
<u>341</u>	Inverted, folded, or curled
<u>342                                    </u>	Plural horns or diaphragms
<u>343                                   </u>	Phase plug
<u>344</u>	Mouthpiece
345	Acoustic enclosure
<u>346</u>	Acoustic resistance
<u>347                                    </u>	On front side of diaphragm
<u>348</u>	On rear side of diaphragm
349	Bass reflex (e.g., rear wave)
350	Front wave
<u>351</u>	Plural chambers
<u>352</u>	Having internal wave reflecting means
<u>353                                   </u>	Acoustic damping or attenuating resonator
354	Absorbing or attenuating element
160	Reflecting element
<u>161</u>	. With mechanical amplifier arrangement
<u>162</u>	. Detail of mechanical vibration coupling to transducer (e.g., tuned vibrating element)
<u> 163</u>	. Having bi-directional transducer
164	. Thermal response to, or generation of, sound vibration
165	. By modifying fluid flow
<u>166</u>	. Having a fluid as a conducting element
<u> 167</u>	Ionized gap, spark, or flame
<u>355</u>	. Housed microphone
356	Directional
357	With plural sound ports (e.g., pressure gradient)
<u>358</u>	Plural or variable characteristics
<u>359</u>	Windscreen
<u>360</u>	Cavity
361	Mounting or support
362	Boom (other than on headset)
<u>363</u>	Stand or gooseneck
<u>364                                    </u>	On body or clothing
<u>365                                    </u>	In electronic apparatus or vehicle
<u>366</u>	Detachable from support
367	In headgear
<u>368</u>	
	On shock absorbing support
<u>369</u>	. Microphone capsule only
<u>170                                    </u>	Compound
<u> 171 </u>	Micromagnetic
<u>172</u>	Light modifying
173	Piezoelectric or ferroelectric
<u>174</u>	Capacitive
<u>175</u>	Semiconductor junction microphone
<u> 176</u>	Conductive diaphragm (e.g., reed, ribbon)
<u> 177 </u>	Dynamic (e.g., magnetic)
178	Vibrating electrical contract
179	Resistive
<u>180</u>	Granular or carbon
<u>181</u>	Differential
<u>182</u>	. Plural or compound reproducers
370	Headphone
<del>371</del>	Particular cup
372	Having mechanical or acoustic sound attenuation
371 372 373	
<u>3/3</u>	Openable to ambient
<u>374                                    </u>	Particular support structure

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<u>375</u>	And microphone
376	Headgear
<u>377                                   </u>	Plural bands
<u>378</u>	Single band
<u>379</u>	adjustable
<u>380</u>	Ear insert or bone conduction
<u>381</u>	Hook over ear or spectacle
<u>382</u>	Sound conducting tube
<u>383                                   </u>	Collapsible
<u>384</u>	Electrical hardware feature
<u> 184</u>	Different types of diaphragms
<u> 185</u>	Having common voice coil
<u> 186</u>	Plural diaphragms
<u>385</u>	. Having body supported structure other than on head
<u>386</u>	. Mounting or support feature of housed loudspeaker
<u>387                                    </u>	Directional, directible, or movable
<u>388</u>	With furniture, clothing, or image display
<u>389</u>	In vehicle
<u>390</u>	
<u>391                                    </u>	Grille
<u>392</u>	Resilient
<u>393                                   </u>	
<u>394</u>	Electrical hardware
<u>395</u>	Mechanical detail
<u>189</u>	. Having protective or sheilding feature
<u>190</u>	. Electrostrictive, magnetostrictive, or piezoelectric
<u>191</u>	. Having electrostatic element (e.g., electret, vibrating plate)
<u>396</u>	. Electromagnetic (e.g., dyynamic)
<u>397</u>	Cooling feature
<u>398</u>	Having diaphragm support feature
	Having diaphragm support feature
399	Conductive diaphragm (e.g., ribbon)
399 400	<ul><li> Conductive diaphragm (e.g., ribbon)</li><li> Movable voice coil</li></ul>
399 400 401	<ul><li> Conductive diaphragm (e.g., ribbon)</li><li> Movable voice coil</li><li> Multiple voice coils</li></ul>
399 400 401 402	<ul><li> Conductive diaphragm (e.g., ribbon)</li><li> Movable voice coil</li><li> Multiple voice coils</li><li> For different frequencies</li></ul>
399 400 401 402 403	<ul> <li> Conductive diaphragm (e.g., ribbon)</li> <li> Movable voice coil</li> <li> Multiple voice coils</li> <li> For different frequencies</li> <li> Centering from outside bobbin or diaphragm</li> </ul>
399 400 401 402 403 404	<ul> <li> Conductive diaphragm (e.g., ribbon)</li> <li> Movable voice coil</li> <li> Multiple voice coils</li> <li> For different frequencies</li> <li> Centering from outside bobbin or diaphragm</li> <li> Spider</li> </ul>
399 400 401 402 403 404 405	<ul> <li> Conductive diaphragm (e.g., ribbon)</li> <li> Movable voice coil</li> <li> Multiple voice coils</li> <li> For different frequencies</li> <li> Centering from outside bobbin or diaphragm</li> <li> Spider</li> <li> Centering from within bobbin or diaphragm</li> </ul>
399 400 401 402 403 404 405 406	<ul> <li> Conductive diaphragm (e.g., ribbon)</li> <li> Movable voice coil</li> <li> Multiple voice coils</li> <li> For different frequencies</li> <li> Centering from outside bobbin or diaphragm</li> <li> Spider</li> <li> Centering from within bobbin or diaphragm</li> <li> Field coil</li> </ul>
399 400 401 402 403 404 405 406 407	<ul> <li> Conductive diaphragm (e.g., ribbon)</li> <li> Movable voice coil</li> <li> Multiple voice coils</li> <li> For different frequencies</li> <li> Centering from outside bobbin or diaphragm</li> <li> Spider</li> <li> Centering from within bobbin or diaphragm</li> <li> Field coil</li> <li> Particular bobbin structure</li> </ul>
399 400 401 402 403 404 405 406 407 408	<ul> <li> Conductive diaphragm (e.g., ribbon)</li> <li> Movable voice coils</li> <li> Multiple voice coils</li> <li> For different frequencies</li> <li> Centering from outside bobbin or diaphragm</li> <li> Spider</li> <li> Centering from within bobbin or diaphragm</li> <li> Field coil</li> <li> Particular bobbin structure</li> <li> Pattern</li> </ul>
399 400 401 402 403 404 405 406 407 408 409	<ul> <li> Conductive diaphragm (e.g., ribbon)</li> <li> Movable voice coils</li> <li> Multiple voice coils</li> <li> For different frequencies</li> <li> Centering from outside bobbin or diaphragm</li> <li> Spider</li> <li> Centering from within bobbin or diaphragm</li> <li> Field coil</li> <li> Particular bobbin structure</li> <li> Pattern</li> <li> Wiring structure</li> </ul>
399 400 401 402 403 404 405 406 407 408 409 410	<ul> <li> Conductive diaphragm (e.g., ribbon)</li> <li> Movable voice coil</li> <li> Multiple voice coils</li> <li> For different frequencies</li> <li> Centering from outside bobbin or diaphragm</li> <li> Spider</li> <li> Centering from within bobbin or diaphragm</li> <li> Field coil</li> <li> Particular bobbin structure</li> <li> Pattern</li> <li> Wiring structure</li> <li> Coil coating, winding layer structure, or wire</li> </ul>
399 400 401 402 403 404 405 406 407 408 409 410 411	<ul> <li> Conductive diaphragm (e.g., ribbon)</li> <li> Movable voice coils</li> <li> For different frequencies</li> <li> Centering from outside bobbin or diaphragm</li> <li> Spider</li> <li> Centering from within bobbin or diaphragm</li> <li> Field coil</li> <li> Particular bobbin structure</li> <li> Pattern</li> <li> Wiring structure</li> <li> Coil coating, winding layer structure, or wire</li> <li> Including adjustment mechanism</li> </ul>
399 400 401 402 403 404 405 406 407 408 409 410 411 412	<ul> <li> Conductive diaphragm (e.g., ribbon)</li> <li> Movable voice coils</li> <li> For different frequencies</li> <li> Centering from outside bobbin or diaphragm</li> <li> Spider</li> <li> Centering from within bobbin or diaphragm</li> <li> Field coil</li> <li> Particular bobbin structure</li> <li> Pattern</li> <li> Wiring structure</li> <li> Coil coating, winding layer structure, or wire</li> <li> Including adjustment mechanism</li> <li> Magnetic circuit</li> </ul>
399 400 401 402 403 404 405 406 407 408 409 410 411 412 413	<ul> <li> Conductive diaphragm (e.g., ribbon)</li> <li> Movable voice coils</li> <li> Multiple voice coils</li> <li> For different frequencies</li> <li> Centering from outside bobbin or diaphragm</li> <li> Spider</li> <li> Centering from within bobbin or diaphragm</li> <li> Field coil</li> <li> Particular bobbin structure</li> <li> Pattern</li> <li> Wiring structure</li> <li> Coil coating, winding layer structure, or wire</li> <li> Including adjustment mechanism</li> <li> Magnetic circuit</li> <li> Having damping</li> </ul>
399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414	Conductive diaphragm (e.g., ribbon) Movable voice coils Multiple voice coils For different frequencies Centering from outside bobbin or diaphragm Spider Centering from within bobbin or diaphragm Field coil Particular bobbin structure Pattern Wiring structure Coil coating, winding layer structure, or wire Including adjustment mechanism Magnetic circuit Having damping Flux modifying means
399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415	<ul> <li> Conductive diaphragm (e.g., ribbon)</li> <li> Movable voice coils</li> <li> For different frequencies</li> <li> Centering from outside bobbin or diaphragm</li> <li> Spider</li> <li> Centering from within bobbin or diaphragm</li> <li> Field coil</li> <li> Particular bobbin structure</li> <li> Pattern</li> <li> Wiring structure</li> <li> Coil coating, winding layer structure, or wire</li> <li> Including adjustment mechanism</li> <li> Magnetic circuit</li> <li> Having damping</li> <li> Flux modifying means</li> <li> Magnetic liquid</li> </ul>
399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416	Conductive diaphragm (e.g., ribbon) Movable voice coil Multiple voice coils For different frequencies Centering from outside bobbin or diaphragm Spider Centering from within bobbin or diaphragm Field coil Particular bobbin structure Pattern Wiring structure Coil coating, winding layer structure, or wire Including adjustment mechanism Magnetic circuit Having damping Flux modifying means Magnetic liquid Inverted (e.g., within cone)
399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417	Conductive diaphragm (e.g., ribbon) Movable voice coil Multiple voice coils For different frequencies Centering from outside bobbin or diaphragm Spider Centering from within bobbin or diaphragm Field coil Particular bobbin structure Pattern Wiring structure Coil coating, winding layer structure, or wire Including adjustment mechanism Magnetic circuit Having damping Flux modifying means Magnetic liquid Inverted (e.g., within cone) Armature diaphragm
399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418	Conductive diaphragm (e.g., ribbon) Movable voice coil Multiple voice coils For different frequencies Centering from outside bobbin or diaphragm Spider Centering from within bobbin or diaphragm Field coil Particular bobbin structure Pattern Wiring structure Coil coating, winding layer structure, or wire Including adjustment mechanism Magnetic circuit Having damping Flux modifying means Magnetic liquid Inverted (e.g., within cone) Armature diaphragm Armature linked to diaphragm
399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419	Conductive diaphragm (e.g., ribbon) Movable voice coil Multiple voice coils For different frequencies Centering from outside bobbin or diaphragm Spider Centering from within bobbin or diaphragm Field coil Particular bobbin structure Pattern Wiring structure Coil coating, winding layer structure, or wire Including adjustment mechanism Magnetic circuit Having damping Flux modifying means Magnetic liquid Inverted (e.g., within cone) Armature diaphragm Armature linked to diaphragm Not having central magnetic portion
399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418	Conductive diaphragm (e.g., ribbon) Movable voice coil Multiple voice coils For different frequencies Centering from outside bobbin or diaphragm Spider Centering from within bobbin or diaphragm Field coil Particular bobbin structure Pattern Wiring structure Coil coating, winding layer structure, or wire Including adjustment mechanism Magnetic circuit Having damping Flux modifying means Magnetic liquid Inverted (e.g., within cone) Armature diaphragm Armature linked to diaphragm
399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420	Conductive diaphragm (e.g., ribbon) Movable voice coil Multiple voice coils For different frequencies Centering from outside bobbin or diaphragm Spider Centering from within bobbin or diaphragm Field coil Particular bobbin structure Pattern Wiring structure Coil coating, winding layer structure, or wire Including adjustment mechanism Magnetic circuit Having damping Flux modifying means Magnetic liquid Inverted (e.g., within cone) Armature diaphragm Armature linked to diaphragm Not having central magnetic portion Having central magnetic portion
399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421	Conductive diaphragm (e.g., ribbon) Movable voice coil Multiple voice coils For different frequencies Centering from outside bobbin or diaphragm Spider Centering from within bobbin or diaphragm Field coil Particular bobbin structure Pattern Wiring structure Coil coating, winding layer structure, or wire Including adjustment mechanism Magnetic circuit Having damping Flux modifying means Magnetic liquid Inverted (e.g., within cone) Armature diaphragm Armature linked to diaphragm Not having central magnetic portion Having central magnetic portion Plural magnets
399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422	Conductive diaphragm (e.g., ribbon) Movable voice coil Multiple voice coils For different frequencies Centering from outside bobbin or diaphragm Spider Centering from within bobbin or diaphragm Field coil Particular bobbin structure Pattern Wiring structure Coil coating, winding layer structure, or wire Including adjustment mechanism Magnetic circuit Having damping Flux modifying means Magnetic liquid Inverted (e.g., within cone) Armature diaphragm Armature linked to diaphragm Not having central magnetic portion Having central magnetic portion Plural magnets Like poles adjacent
399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423	Conductive diaphragm (e.g., ribbon) Movable voice coil Multiple voice coils For different frequencies Centering from outside bobbin or diaphragm Spider Centering from within bobbin or diaphragm Field coil Particular bobbin structure Pattern Wiring structure Coil coating, winding layer structure, or wire Including adjustment mechanism Magnetic circuit Having damping Flux modifying means Magnetic liquid Inverted (e.g., within cone) Armature diaphragm Armature linked to diaphragm Not having central magnetic portion Having central magnetic portion Plural magnets Like poles adjacent Specified diaphragm shape or structure

<u>426</u>	Critically defined material or lamination
<u>427</u>	Metal
<u>428</u>	Fibrous
<u>429</u>	Apertures in surface
<u>430</u>	Dome or round
<u>431                                    </u>	Flat
<u>432</u>	Conical
<u>433                                   </u>	Basket detail
124	MISCELLANEOUS

## FOREIGN ART COLLECTIONS

## FOR000 CLASS-RELATED FOREIGN DOCUMENTS

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

FOR100	AUDIO BANDWIDTH COMPRESSION OR EXPANSION (381/29)
FOR101	. With content reduction encoding (381/30)
FOR102	. Delay line (381/33)
FOR103	TIME COMPRESSION OR EXPANSION (E.G., RUN LENGTH CODING) (381/34)
FOR104	. With content reduction encoding (381/35)
FOR105	SPEECH ANALYSIS AND SYNTHESIS COMBINED (381/36)
FOR106	. Using frequency (381/37)
FOR107	Pitch (381/38)
FOR108	Formants (381/39)
FOR109	. Using time (381/40)
FOR110	SPEECH ANALYSIS (E.G., PHONEME RECOGNITION) (381/41)
FOR111	. Voice recognition (381/42)
FOR112	. Word recognition (381/43)
FOR113	Phonetic typewriters (381/44)
FOR114	Frequency domain (381/45)
FOR115	. Detection of speech in noise (381/46)
FOR116	. Signal to noise ratio enhancement (381/47)
FOR117	. Speech parameter display (381/48)

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FOR118	. Speech pitch fundamental frequency (381/49)
FOR119	. Speech formant frequencies (381/50)
FOR120	SPEECH SYNTHESIS (381/51)
FOR121	. Speech from printed matter (381/52)
FOR122	. Vocal tract model (381/53)
FOR123	ACOUSTICAL NOISE OR SOUND CANCELLATION (381/71)
FOR124	NOISE SUPPRESSION (381/94)
FOR125	BINAURAL AND STEREOPHONIC . Speaker arrangement (381/24)
FOR126	Earphone (381/25)
FOR127	HEARING AIDS, ELECTRICAL (381/68)
FOR128	. Directional (381/68.1)
FOR129	. Frequency control (381/68.2)
FOR130	Bone conduction (381/68.3)
FOR131	. Gain Control (381/68.3)
FOR132	. Spectacle (381/68.5)
FOR133	. Ear insert (381/68.6)
FOR134	. Hook over ear (381/68.7)
FOR135	. Specified casing or housing (381/69)
FOR136	Having vacuum tube amplifier (381/69.1)
FOR137	Having battery (381/69.2)
FOR138	. Having enclosure or housing (381/138)
FOR139	With loudspeaker (e.g., baffle, spatial orientation, etc.) (381/90)
FOR140	. With acoustic wave modifying structure (381/153)
FOR141	Including sound conducting tube (381/154)
FOR142	Directional (381/155)
FOR143	Sound intensifying or spreading element (381/156)

.. Absorbing or attenuating element (e.g., baffle, obstruction, damping) (381/158)

FOR144

FOR145

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... Mouthpiece (381/157)

FOR146	Enclosure or resonant cavity (381/159)
FOR147	. Microphone (381/168)
FOR148	With mounting or support feature (381/169)
FOR149	Headphone (381/183)
FOR150	. Having body supported structure (e.g., earphone) (381/187)
FOR151	. With mounting or support feature (381/188)
FOR152	. Electromagnetic (e.g., dynamic) (381/192)
FOR153	Having feature of edge-supported diaphragm (381/193)
FOR154	Movable voice coil (381/194)
FOR155	Multiple (e.g., double) (381/195)
FOR156	Pattern (381/196)
FOR157	Centering (381/197)
FOR158	Including adjustment mechanism (381/198)
FOR159	Magnetic circuit or core structure (381/199)
FOR160	Armature (381/200)
FOR161	Magnetic configuration (e.g., tubular or U-shaped) (381/201)
FOR162	Specified diaphragm shape or structure (381/202)
FOR163	Flat (381/203)

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. Electro-acoustical transducer mounting or support (381/205)

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... Conical (381/204)